

Serial No.: 10/041,849

In The Claims

1. (previously presented) A calibration cassette pod comprising:

a cassette pod body and a cassette pod door, said cassette pod body is constructed of a top panel, a bottom panel, two side panels and a front panel defining a cavity therein;

a first plurality of ribs formed on an inside surface of said two side panels and said front panel each having a preset depth sufficient for supporting an edge portion of a wafer;

an optical detector housing mounted on an opening in said front panel adapted for receiving an optical detector therein; and

an optical detector comprising a light emission source and a photo diode receiver for determining the position of said edge portion of the wafer.

2. (previously presented) A calibration cassette pod according to claim 1, wherein said light emission source comprises a second plurality of light emission units and a second plurality of photo diode receivers.

Serial No.: 10/041,849

3. (previously presented) A calibration cassette pod according to claim 2, wherein said second plurality is at least three.

4. (previously presented) A calibration cassette pod according to claim 2, wherein said second plurality is at least five.

5. (previously presented) A calibration cassette pod according to claim 1 further comprising a process controller for receiving signals from said optical detector and comparing to a stored datum.

6. (previously presented) A calibration cassette pod according to claim 1, wherein said light emission source emits a visible light beam.

7. (previously presented) A calibration cassette pod according to claim 5 further comprising a robot arm controlled by said process controller.

Serial No.: 10/041,849

8. (previously presented) A calibration cassette pod according to claim 2, wherein said optical detector is mounted in said optical detector housing with said second plurality of light emission units and said second plurality of photo diode receivers protruding into said cavity of said cassette pod body.

9. (previously presented) A calibration cassette pod according to claim 1, wherein said cassette pod body when installed on a loadport of a process machine with said cassette pod door removed, allows a robot arm to deliver/remove a wafer to/from said cavity.

10. - 14. (cancelled)